

IN THE TITLE

Please replace the title with the following marked-up title:

---APPARATUS ~~AND~~ ~~METHOD~~ FOR DIGITAL WIRELESS
COMMUNICATIONS---

IN THE SPECIFICATION

Please amend the specification as follows:

Please replace the paragraph beginning page 1, line 29 with the following amended paragraph:

---However, during quasi-coherent detection with such a frame configuration with one pilot symbol inserted for every $[[a]]$ few information symbols, symbol synchronization gets the jitters. Therefore, in quasi-coherent detection with symbols whose symbol synchronization is not completely established, the accuracy in estimating the reference phase, amount of frequency offset and amount of amplitude distortion using pilot symbols deteriorates. This results in deterioration of a bit error rate characteristic in the signal to noise ratio.---

Please replace the paragraph beginning page 41, line 21 with the following amended paragraph

---Furthermore, if the frequency character of the route roll-off filter, which is a band limiting filter, is as shown in Equation 2 below, changing the roll-off factor from 0.1 to 0.4 and setting the signal point amplitude of the pilot symbol to a value greater than 1.0 time and smaller than 1.6 times the maximum signal point amplitude according to the multivalued QAM system can improve the accuracy in estimating the amount of frequency offset and the amount of amplitude distortion when carrying out quasi-coherent detection. This results in a greater effect of improving the bit error rate characteristic in the signal to noise ratio. In Equation 2, ω is frequency in radian, α is roll-off factor, $[[\omega_0]]$ ω_0 is Nyquist frequency in radian and $H(\omega)$ is amplitude characteristic of the route roll-off filter.---